

ENGINEERING TRIAL REPORT
TRIAL DATA (STEAM TURBINE DRIVEN SHIPS WITH OIL FIRED BOILERS)

REPORT CONTROL SYMBOL OPNAV 9094-1

SHIP (name, type, number) U.S.S.										DATE OF TRIAL								
A. TYPE OF TRIAL (Indicate below)																		
<input type="checkbox"/> FLEET TRAINING <input type="checkbox"/> PRE-OVERHAUL <input type="checkbox"/> POST-REPAIR <input type="checkbox"/> OTHER (Specify) _____																		
<input type="checkbox"/> FULL POWER <input type="checkbox"/> FULL POWER AND SMOKE PREVENTION <input type="checkbox"/> ECONOMY <input type="checkbox"/> OTHER (Specify) _____																		
B. GENERAL	1. DRAFT	FORWARD (feet and inches)			AFT (feet and inches)			MEAN (feet and inches)			DISPLACEMENT (tons)							
		DAYS OUT OF DOCK			DAYS UNDERWAY SINCE LAST UNDOCKING			DAYS NOT UNDERWAY SINCE LAST UNDOCKING			TYPE OF BOTTOM PAINT							
	2. BOTTOM FOULING DATA	LOCATION			DIAMETER (ft-in)		PITCH (feet and inches)		NO. OF BLADES		TYPE							
		INBOARD																
		OUTBOARD																
	3. PROPELLERS	ITEM			1ST HOUR		2ND HOUR		3RD HOUR		4TH HOUR		5TH HOUR		6TH HOUR		AVERAGE	
		BAROMETER (INCHES HG)																
		AIR TEMPERATURE (DRY BULB) °F																
		AIR TEMPERATURE (WET BULB) °F																
		SEA TEMPERATURE (MAIN INJECTION) °F																
		TRUE FORCE (IN KNOTS)																
		RELATIVE DIRECTION FROM (°)																
		STATE																
		RELATIVE DIRECTION FROM (°)																
SHIPS SPEED KNOTS																		
C. PLANT CONDITIONS (GENERAL)	1. POWER	REQUIRED	PROPELLER RPM OR TOTAL KW PROPULSION GENERATORS, REQUIRED (SPECIFY WHICH)		OUTBOARD													
			INBOARD															
	2. FUEL	ACTUAL	PROPELLER RPM OR TOTAL KW PROPULSION GENERATORS, ACTUAL (SPECIFY WHICH)		OUTBOARD													
			INBOARD															
	3. FRESH WATER	FUEL CONSUMED, TOTAL (including Housekeeping Services) (Gals)																
		DISTILLING PLANTS IN USE		NUMBER														
		TYPE																
	4. GENERATORS	TOTAL FEED WATER CONSUMED (Gals)																
		TOTAL WATER MADE BY DISTILLING PLANTS (Gals)																
		S/S GENERATORS IN USE		NUMBER														
	5. SMOKE	TOTAL AVERAGE LOAD (AC AND DC) S/S GENERATORS (KW)																
		S/S GENERATORS IN USE		RATING														
	6. INTER-VAL	SMOKE, NO. SECONDS (indicate kind as per code:) BLACK (B), DARK BROWN (DB), LIGHT BROWN (LB), WHITE (W), HAZE (H), NONE (N)																
		INTERVAL READINGS TAKEN																

ENGINEERING TRIAL REPORT (600 PSI "M")
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BOILER NUMBER		FIRE ROOM NUMBER		SERVING MAIN ENGINE OR MAIN PROPULSION UNIT NO.				
D. PLANT CONDITIONS (DETAILED)								
ITEM		1ST HOUR	2ND HOUR	3RD HOUR	4TH HOUR	5TH HOUR	6TH HOUR	AVERAGE
1.	BOILER DRUM PRESSURE (SATURATED) (PSIG)							
2.	SUPERHEATER OUTLET							
	PRESSURE (PSIG)							
3.	BOILER FEED INLET							
	TEMPERATURE (°F)							
4.	ECONOMIZER OUTLET TEMPERATURE (°F)							
5.	BURNERS IN USE							
	SAT. SIDE (SIZE)							
6.	SPRAYER PLATES							
	SUPERHEATER SIDE (SIZE)							
7.	BOILERS (MAIN) IN USE, (NO.)							
8.	FUEL OIL SERVICE PUMPS IN USE							
	NUMBER							
9.	F.O. SERVICE PUMP SPEED (D.S./MIN) OR (RPM)							
10.	F.O. SERVICE PUMP DISCHARGE PRESS. (PSIG)							
11.	FUEL OIL TO BURNERS, TEMPERATURE (°F)							
12.	BURNER MANIFOLD PRESSURE							
	SAT. SIDE (PSIG)							
13.	AIR TO BOILER, PRESSURE (IN. H ₂ O)							
14.	F.D. BLOWERS IN USE (STEAM OR ELECTRIC)							
	NUMBER							
15.	F.D. BLOWERS							
	TYPE (steam) (elect.)							
	SPEED (R.P.M.)							
	STEAM TO. PRESS. (PSIG)							
16.	STACK GAS TEMPERATURE (°F)							
17.	INTERVAL READINGS TAKEN							

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BOILER NUMBER		FIRE ROOM NUMBER			SERVING MAIN ENGINE OR MAIN PROPULSION UNIT NO.			
ITEM		1ST HOUR	2ND HOUR	3RD HOUR	4TH HOUR	5TH HOUR	6TH HOUR	AVERAGE
1.	BOILER DRUM PRESSURE (SATURATED) (PSIG)							
2.	SUPERHEATER OUTLET							
	PRESSURE (PSIG)							
3.	BOILER FEED INLET							
	TEMPERATURE (°F)							
4.	ECONOMIZER OUTLET							
	TEMPERATURE (°F)							
5.	BURNERS IN USE							
	SAT. SIDE (SIZE)							
6.	SPRAYER PLATES							
	SUPERHEATER SIDE (SIZE)							
7.	BOILERS (MAIN) IN USE, (NO.)							
8.	FUEL OIL SERVICE PUMPS IN USE							
	NUMBER							
9.	F.O. SERVICE PUMP SPEED (D.S./MIN) OR (RPM)							
	TYPE (steam) (elect.)							
10.	F.O. SERVICE PUMP DISCHARGE PRESS. (PSIG)							
11.	FUEL OIL TO BURNERS, TEMPERATURE (°F)							
12.	BURNER MANIFOLD PRESSURE							
	SAT. SIDE (PSIG)							
13.	AIR TO BOILER, PRESSURE (IN. H ₂ O)							
	SUPERHEATER SIDE (PSIG)							
14.	F.D. BLOWERS IN USE (STEAM OR ELECTRIC)							
	NUMBER							
15.	F.D. BLOWERS							
	TYPE (steam) (elect.)							
	SPEED (R.P.M.)							
	STEAM TO. PRESS. (PSIG)							
16.	STACK GAS TEMPERATURE (°F)							
17.	INTERVAL READINGS TAKEN							
ADDITIONAL COMMENTS								

ENGINEERING TRIAL REPORT (1200 and 600 PSI "D")
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BOILER NUMBER		FIRE ROOM NUMBER		SERVING MAIN ENGINE NUMBER				
D. PLANT CONDITIONS (DETAILED)								
ITEM		1ST HOUR	2ND HOUR	3RD HOUR	4TH HOUR	5TH HOUR	6TH HOUR	AVERAGE
1.	BOILER DRUM PRESSURE (PSIG)							
2.	SUPERHEATER OUTLET							
	PRESSURE (PSIG)							
3.	DESUPERHEATER OUTLET							
	TEMPERATURE (°F)							
4.	BOILER FEED INLET							
	PRESSURE (PSIG)							
5.	ECONOMIZER OUTLET TEMPERATURE (°F)							
	TEMPERATURE (°F)							
6.	D. F. TANK							
	SHELL PRESSURE (PSIG)							
7.	AUXILIARY EXHAUST PRESSURE (PSIG)							
	OUTLET TEMP. (°F)							
8.	NUMBER BURNERS IN USE							
	SATURATER SIDE							
9.	SPRAYER PLATE SIZE							
	SUPERHEATED SIDE							
10.	F.O. SERVICE PUMP IN USE							
	NUMBER							
11.	F.O. SERVICE PUMP							
	TYPE (STM. OR ELECT.)							
12.	BURNER MANIFOLD							
	TEMPERATURE (°F)							
13.	AIR TO BOILER PRESSURE (IN'S. OF H ₂ O)							
	SATURATED SIDE (PSIG)							
14.	F.D. BLOWERS							
	NUMBER IN USE							
15.	MAIN FEED PUMP (STEAM OR ELECTRIC)							
	TYPE (STM. or ELECT.)							
16.	MAIN FUEL BOOSTER PUMP (STEAM OR ELECTRIC)							
	STEAM TO PRESS. (PSIG)							
17.	ATOMIZING STEAM SUPPLY - PRESS (PSIG)							
	STEAM TO TEMP. (PSIG)							
18.	INTERVAL READINGS TAKEN							
	DISCHARGE PRESSURE (PSIG)							
ADDITIONAL COMMENTS								

ENGINEERING TRIAL REPORT
TRIAL DATA (STEAM TURBINE DRIVEN SHIPS WITH OIL FIRED BOILERS)

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ENGINE ROOM NUMBER			MAIN ENGINE OR MAIN PROPULSION UNIT NUMBER			MOTOR NUMBER			
ITEM			1ST HOUR	2ND HOUR	3RD HOUR	4TH HOUR	5TH HOUR	6TH HOUR	AVERAGE
D. PLANT CONDITIONS (DETAILED)	1. MAIN PUMPS	1.1 MAIN FEED (steam or electric)	1.11 NUMBER IN USE						
			1.12 TYPE (steam or electric)						
			1.13 STEAM TO PRESS. (PSIG)						
			1.14 STEAM TO TEMP. (°F)						
			1.15 DISCHARGE PRESS. (PSIG)						
			1.16 SPEED (D.S./MIN.) (RPM)						
		1.2 MAIN FEED BOOSTER (steam or electric)	1.21 NUMBER IN USE						
			1.22 TYPE (steam or electric)						
			1.23 DISCHARGE PRESSURE						
			1.24 SPEED (RPM)						
		1.3 MAIN CONDENSATE (steam or electric)	1.31 NUMBER IN USE						
			1.32 TYPE (steam or electric)						
			1.33 DISCHARGE PRESSURE						
			1.34 SPEED (RPM)						
		1.4 MAIN CIRCULATING (steam or electric)	1.41 NUMBER IN USE						
			1.42 TYPE (steam or electric)						
	1.43 DISCHARGE PRESSURE								
	1.44 SPEED (RPM)								
	4. MAIN CONDENSERS	2. D.F.T. FEED DISCHARGE TEMP. (°F)							
		3. AUXILIARY EXHAUST PRESS. (PSIG)							
		4.1 INJECTION TEMPERATURE (°F)							
		4.2 CONDENSATE TEMP. (HOTWELL) (°F)							
		4.3 OVERBOARD DISCHARGE TEMP. (°F)							
	5. PROPULSION TURBINES	5.1	5.11 THROT. VALVE OR STRNR PRESS. (PSIG)						
			5.12 THROT. VALVE OR STRNR TEMP. (°F)						
		5.2 H.P. TURBINE/SINGLE CASE TURBINE (delete one)	5.21 NOZZLE VALVE CHEST	PRESSURE (PSIG)					
				TEMPERATURE					
			5.22 1ST STAGE	PRESSURE (PSIG)					
				TEMPERATURE					
		5.24 STAGE	PRESSURE (in. Hg) (PSIG)						
			TEMPERATURE						
		5.25 EXHAUST	PRESSURE (in. Hg) (PSIG)						
			TEMPERATURE						
		5.3 I.P. /CRUISING TURBINE (delete one)	5.31 NOZZLE VALVE CHEST	PRESSURE (PSIG)					
				TEMPERATURE					
			5.32 1ST STAGE	PRESSURE (in. Hg) (PSIG)					
				TEMPERATURE					
	5.34 EXHAUST	PRESSURE (in. Hg) (PSIG)							
		TEMPERATURE							
	5.4 L.P. TURBINE	5.41 INLET	PRESSURE (in. Hg) (PSIG)						
TEMPERATURE									
5.44 ASTERN INLET		PRESSURE							
		TEMPERATURE							
5.5 NOZZLE BY-PASS AND EXTRACTION VALVES	5.51 H.P. TURBINE	EXTRACTION (bleed) VALVES OPEN (LIST)							
	5.52	I.P. TURBINE EXTRACTION (bleed) VALVE (indicate OPEN or CLOSED)							
	5.53	CROSSOVER EXTRACTION (bleed) VALVE (indicate OPEN or CLOSED)							
	5.54	L.P. TURBINE EXTRACTION (bleed) VALVE (indicate OPEN or CLOSED)							

